

IN THE ABSTRACT

The injection and solidification operation and kneading and solidification operation can be performed selectively by a single facility, and generating amount of the radioactive secondary waste can be decreased.

A transferring means 5 for transferring solidifying container 4; a solidifying agent injecting and kneading means 50 for preparing a solidifying agent paste by kneading a solidifying agent and additive water, and injecting said solidifying agent paste into said solidifying container 4 at a first location 5b of the upstream side in a transferring direction of the transferring means 5; and a waste charging and kneading means 60, which is capable of charging radioactive waste into the solidifying container 4 at the second location 5c in the downstream of the first location 5b in the transferring direction of the transferring means 5 and of kneading the radioactive waste in the solidifying container 4, are provided. An injection and solidification operation as well as a kneading and solidification operation can be performed by a single facility. A decreased amount of radioactive secondary waste is generated. A solidifying agent paste is prepared by kneading a solidifying agent and additive water. The solidifying agent paste is injected into a

solidifying container. The radioactive waste is charged into  
the solidifying container and kneaded.